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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|---|-------------|----------------------|---------------------|------------------|--|
| 10/555,098 | 11/02/2005 | Catherine Goulas | 279587US0PCT | 9429 | |
| OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET | | | EXAMINER | | |
| | | | GROUP, KARL E | | |
| ALEXANDRIA, VA 22314 | | | ART UNIT | PAPER NUMBER | |
| | | | 1793 | | |
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| | | | NOTIFICATION DATE | DELIVERY MODE | |
| | | | 03/05/2009 | ELECTRONIC | |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

| Office Action Summary | | Applicat | on No. | Applicant(s) | | | | |
|---|--|--|---|---|-------------------|--|--|--|
| | | 10/555,0 | 98 | GOULAS, CATHI | GOULAS, CATHERINE | | | |
| | | Examine | r | Art Unit | | | | |
| | | Karl E. G | roup | 1793 | | | | |
| Period fo | The MAILING DATE of this communic or Reply | ation appears on th | e cover sheet with | the correspondence a | ddress | | | |
| WHIC - Exter after - If NC - Failu Any (| ORTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE MA asions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commu- period for reply is specified above, the maximum statu- te to reply within the set or extended period for reply we reply received by the Office later than three months after an adjustment. See 37 CFR 1.704(b). | ILING DATE OF TI 37 CFR 1.136(a). In no en nication. utory period will apply and v ill, by statute, cause the ap | HIS COMMUNICA vent, however, may a reply vill expire SIX (6) MONTHS plication to become ABAN | TION. / be timely filed S from the mailing date of this of DONED (35 U.S.C. § 133). | | | | |
| Status | | | | | | | | |
| 1) 又 | Responsive to communication(s) filed | on 28 January 200 | 19 | | | | | |
| '= | | o)⊠ This action is i | | | | | | |
| 3) | | <i>′</i> — | | s prosecution as to th | e merits is | | | |
| ٥/١ | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | | | |
| | closed in description with the practice | o arraor Ex parto & | 24970, 1000 C.D. 1 | 1, 100 0.0. 210. | | | | |
| Dispositi | on of Claims | | | | | | | |
| 4)🛛 | Claim(s) 1-12,15-21,27,28 and 37-40 | is/are pending in th | ie application. | | | | | |
| | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | | |
| 5) | 5) Claim(s) is/are allowed. | | | | | | | |
| 6)⊠ | Claim(s) 1-12,15-21,27,28,37-40 is/ar | e rejected. | | | | | | |
| 7) | Claim(s) is/are objected to. | | | | | | | |
| 8)□ | Claim(s) are subject to restricti | on and/or election i | requirement. | | | | | |
| Applicati | on Papers | | | | | | | |
| | The specification is objected to by the | Examiner | | | | | | |
| • | | |)□ objected to by | the Examiner | | | | |
| .0/ | 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | | |
| | | - . , | - | , , | ER 1 121(d) | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | | | |
| TI) THE CAUTOR GEGIALIOT IS Objected to by the Examiner. Note the attached Office Action of John FTO-192. | | | | | | | | |
| Priority ι | ınder 35 U.S.C. § 119 | | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | | | |
| 2) Notic 3) Inform | t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTomation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date | O-948) | Paper No(s)/M | nmary (PTO-413) fail Date rmal Patent Application | | | | |

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1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1-28-08 has been entered.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-12,15-21,27,28,37-40 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims require $Na_2O + K_2O > 10\%$, with the maximum of Na_2O being 4% the minimum amount of K_2O would have to be >6% however the claims allow for 4% K_2O . This would equal a maximum of 8%. The metes and bounds of the claim cannot be determined because a claim may only set forth one range for a component.

Claim Rejections - 35 USC § 103

- 4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 5. Claims 1-12,15-21,27,28,37-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Khiati et al WO 98/40320 (equivalent US 6,905,991 will be referenced), for reasons of record.

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Applicants' argument that Khiati et al fail to teach a specific composition comprising 2-4% Na₂O is not persuasive in overcoming the rejection because Khiati et al teach 2-8 wt% Na₂O, column 5, lines 50-56. Although no one example includes an amount between 2-4%, the range 2-8% is considered to be specific enough to make the claimed range obvious. The subject matter as a whole would have been obvious to one of ordinary skill in the art at the time the invention was made to have selected the overlapping portion of the range disclosed by the reference because overlapping ranges have been held to be a prima facie case of obviousness, see In re Malagari, 182 U.S.P.Q. 549.

Furthermore, many of the examples of Khiati et al. have a thermal expansion between 80-90 x 10⁻⁷/°C therefor a thermal expansion between the claimed range is considered to be contemplated by Khiati et al. Secondly, thermal expansion is temperature variable and the claims fail to set forth a temperature range making it unclear at what temperature range the thermal expansion is claiming.

Applicants further argue Na_2O ranges outside the claimed range yields higher degrees of yellowing. This is not persuasive in overcoming the rejection because the example in the instant disclosure having 14% Na_2O is substantially outside the 2-8% taught by Khiati et al. Furthermore, applicants' disclosure is silent as to limiting the Na_2O to 2-4% to affect a lower yellowing.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl E. Group whose telephone number is 571-272-1368. The examiner can normally be reached on M-F (6:30-4:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Karl E Group/ Primary Examiner Art Unit 1793

Keg 2-27-09